## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 26 May 2005 (26.05.2005)

**PCT** 

(10) International Publication Number WO 2005/046366 A1

(51) International Patent Classification7:

A24C 5/47

(21) International Application Number:

PCT/EP2004/052981

(22) International Filing Date:

16 November 2004 (16.11.2004)

(25) Filing Language:

English

(26) Publication Language:

**English** 

(30) Priority Data: BO2003A 000683

(71) Applicant: G.D SOCIETA' PER AZIONI [IT/IT]; Via Battindarno, 91, I-40133 BOLOGNA (IT).

17 November 2003 (17.11.2003)

- (72) Inventors; and
- (75) Inventors/Applicants (for US only): DRAGHETTI, Fiorenzo [IT/IT]; Via San Donino, 506 - Frazione Villafontana, I-40059 MEDICINA (IT). BERTINELLI, Gianluca [IT/IT]; Via Calanchi, 6, I-40011 ANZOLA DELL'EMILIA (IT). ZANETTI, Umberto [IT/IT]; Via Castellaro, 47, I-41100 MODENA (IT). GOBBI, Alessandro [IT/IT]; Via F.lli Cervi, 43, I-40011 ANZOLA DELL'EMILIA (IT).

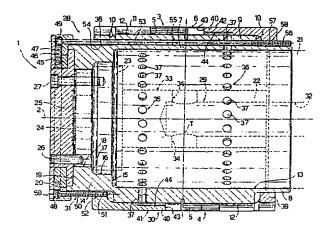
- (74) Agents: JORIO, Paolo et al.; Studio Torta S.r.l., Via Viotti, 9, I-10121 Torino (IT).
- (81) Designated States (unless otherwise indicated. for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

with international search report

[Continued on next page]

### (54) Title: CENTRING DRUM FOR FILTER ASSEMBLY MACHINES



(57) Abstract: A centring drum (1) for filter assembly machines, the centring drum (1) having external axial seats (12) movable with the centring drum (1) about a longitudinal axis (2) of rotation, and for receiving respective double filters (5), at least some of which are offset laterally, along the relative seats (12), with respect to a central transverse reference plane (T); each seat (12) housing a respective stop member (40) movable with the relative seat (12) about the longitudinal axis (2) of rotation, and located on a respective side of the reference plane (T) to define a centred position of the relative double filter (5), and a push device (29) for moving the relative double filter (5) axially onto the relative stop member (40); the stop members (40) defining a first and a second succession (41, 42) of stop members (40), which are located on opposite sides of the reference plane (T) and are both connected to a position adjusting device (31) movable about the longitudinal axis (2) of rotation and for moving the two successions (41, 42) equally and oppositely along the longitudinal axis (2) of rotation.

V 99897000 OM

# WO 2005/046366 A1

 before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.